

ECHO Technical Committee Agenda 1.7.2014

ECHO has been replaced by the **Common Metadata Repository (CMR)**, a high-performance, high-quality, continuously evolving metadata system that catalogs all data and service metadata records for the EOSDIS system and will be the authoritative management system for all EOSDIS metadata.

The information contained within this ECHO wiki is now archived for historical reference. Please navigate to the **CMR wiki pages**, or to the **CMR Overview page** on **Earthdata**.

We never discussed these topics in person, and we have no new topics today, so we will talk to these points a bit during today's meeting.

Discussion Topics

Relevance Sorting in Reverb

Reverb User Settings and Saved Queries

FYI: Reverb Mapping Changes

Order Workflow

ECHO @ ESIP Winter 2014: Friday January 10,
10:30am - 12pm, New Hampshire - 12

Upcoming Planned Maintenance 1/8

Please email me for more information or to provide feedback. kathleen.baynes@nasa.gov

Dial-In

Information

ECHO
Telecon
Number – 877
.973.2179 –
Passcode
770291

Attendance

Name	Organization
Kathleen Baynes	ECHO
Jon Velapoldi	ECHO
Frank Schaffer	NSIDC
Chris Bond	NSIDC
Pam Wyatt	NSIDC
Lisa Booker	NSIDC
Heath Dreesman	LPDAAC

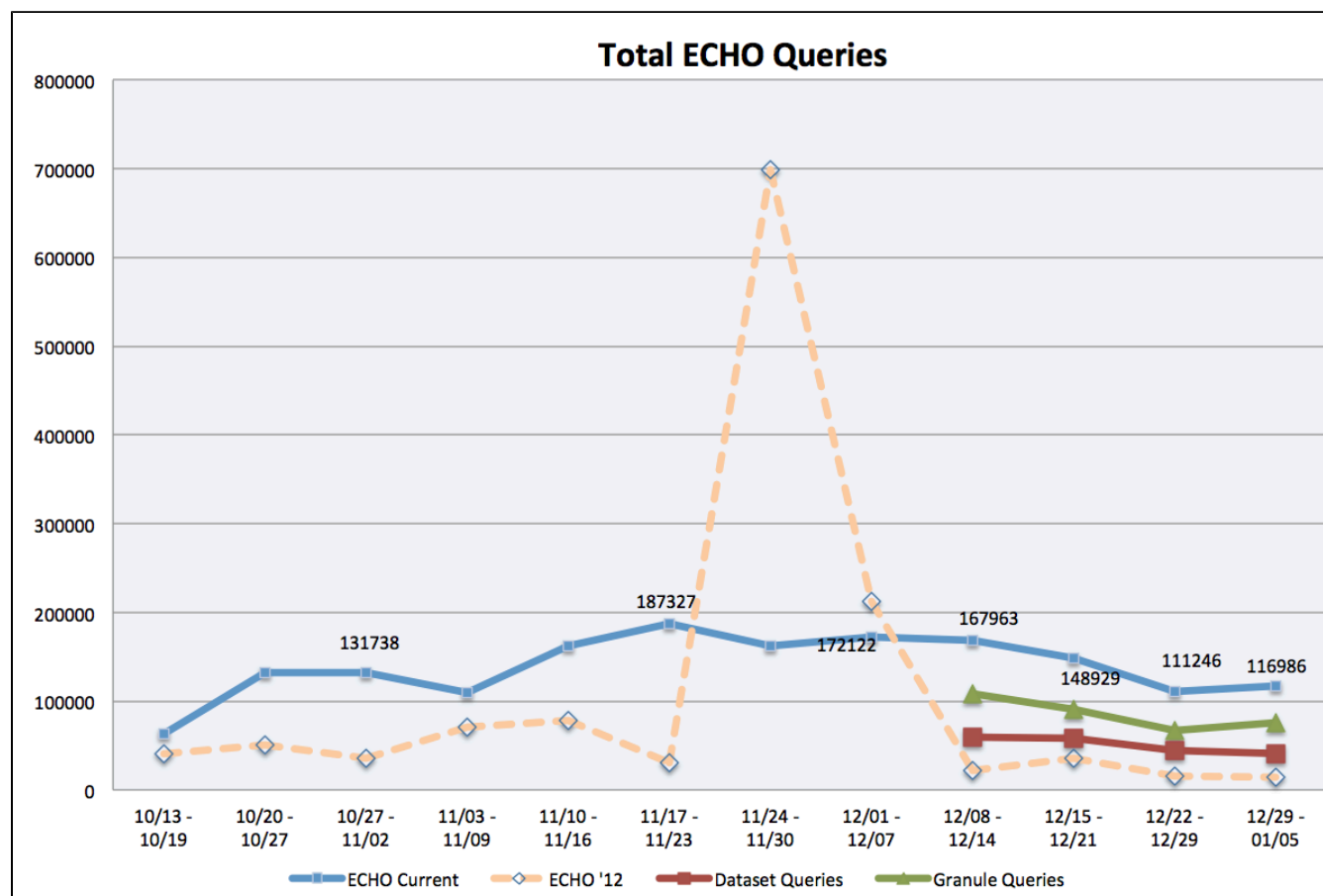
Ben McMurray	ORNL
Merlie Hansen	SEDAC
Cathy Fowler	NSIDC
Lindsay Parker	LARC
Jessica Garron	ASF
Andrew Mitchell	ESDIS
Chris Finch	JPL

ECHO System Status

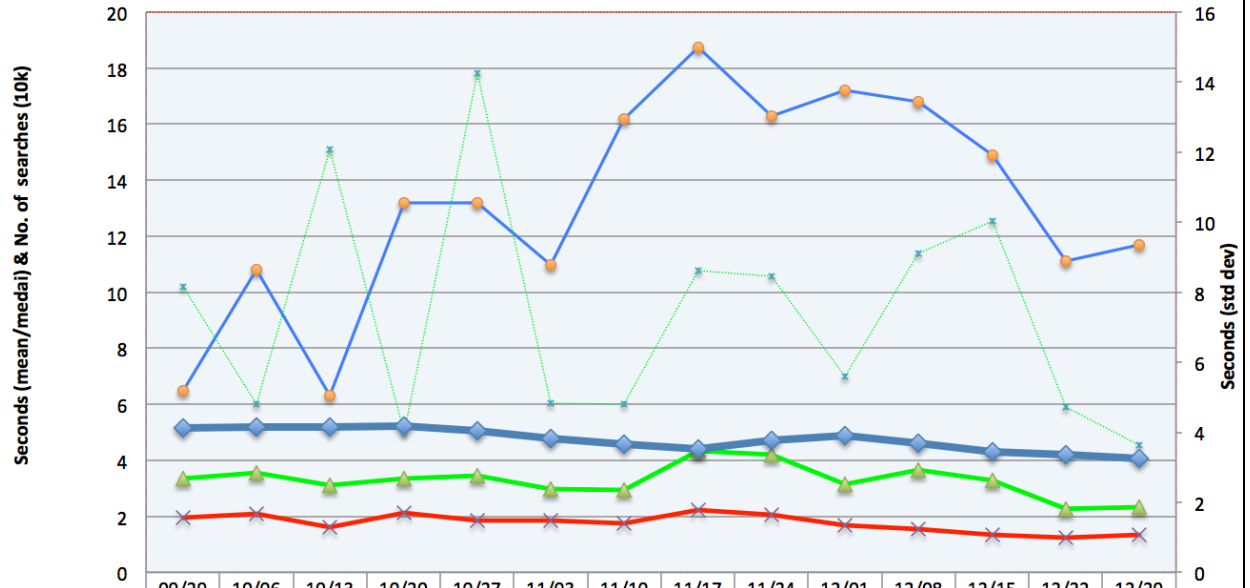
System Issues

- [1/7/2014 ECHO Operations outage](#)
- Reverb IE Ordering Issue (now resolved NCR 11014334)

Recent Metrics

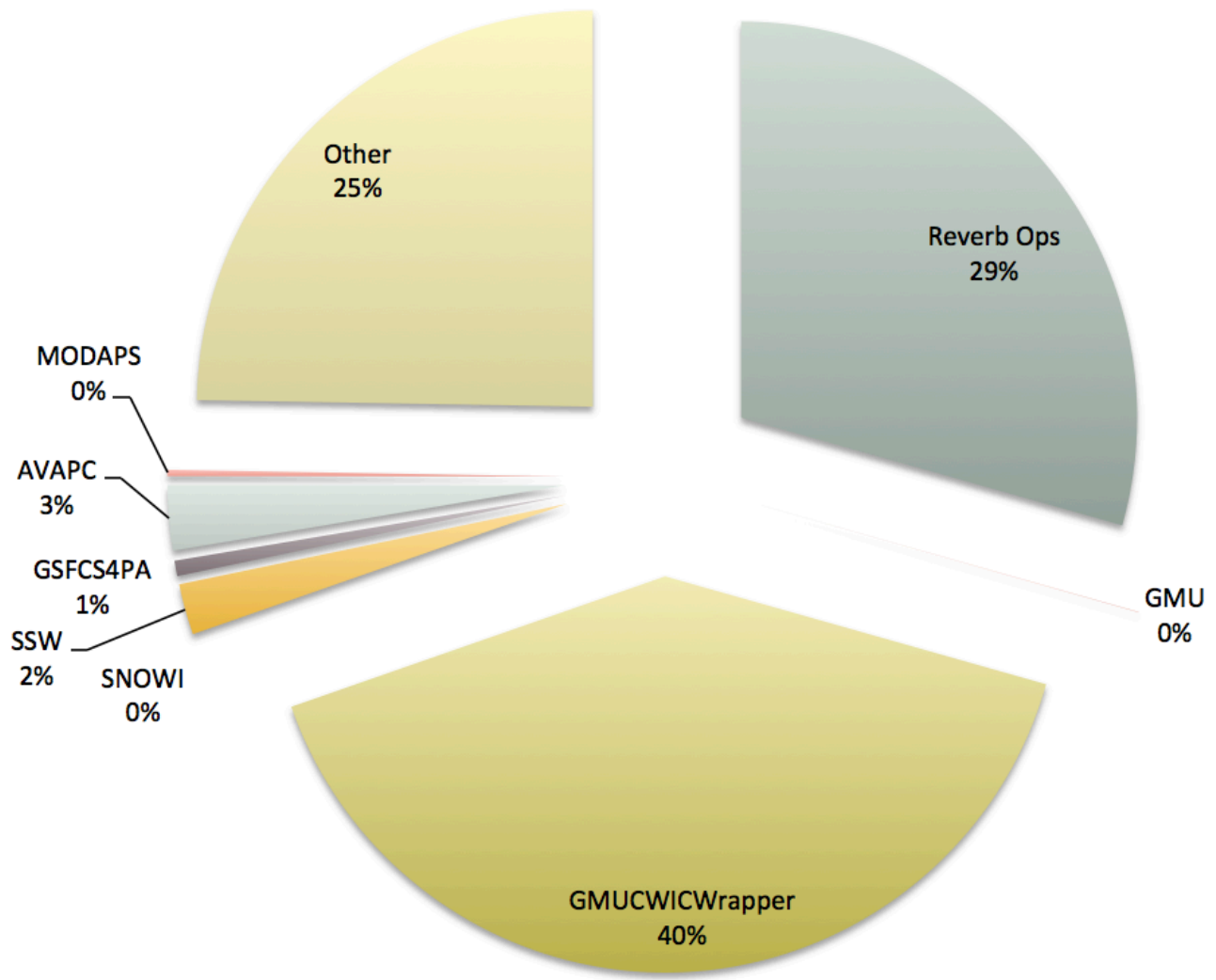


Average Query Performance



▲ Avg Exec Time	3.3343	3.5624	3.1241	3.3543	3.4403	2.9655	2.93	4.33	4.21	3.13	3.65	3.27	2.27	2.34
✕ Median Exec. Time	1.939	2.105	1.624	2.115	1.855	1.859	1.76	2.22	2.04	1.67	1.55	1.34	1.23	1.35
● Totals (*10k)	6.4788	10.8213	6.3087	13.1948	13.1738	10.9752	16.1769	18.7327	16.2845	17.2122	16.7963	14.8929	11.1246	11.6986
⋈ Exec Time Std. Dev.	8.1477	4.7989	12.0651	3.9881	14.2568	4.842	4.8	8.61	8.46	5.6	9.11	10.03	4.72	3.62
◆ 12 Wk Avg	4.110	4.151	4.152	4.184	4.046	3.829	3.663	3.536	3.782	3.896	3.679	3.442	3.353	3.251

Client Query Breakdown



Release Status

In Operations: 10.71.8 (pushed to Test Bed 12/4, to Partner Test tomorrow 12/11, to Operations 12/18)

(4 week sprint, ended 12/6)

Number	Summary
11010695	ECHO:REVERB:ability to search multiple time periods (LPDAAC Review Requested)
11013378	ECHO:Reverb: New AST_L1A order options line should be added as last option (Order Workflow) (LPDAAC)
11013400	Reverb: Order Options change request for AST_L1A collection (Order Workflow) (LPDAAC)
11013402	ECHO: The add button should only apply to AST_L1A data for LP DAAC (Order Workflow) (LPDAAC)
11013567	Reverb 10.56.8. URLs are being randomly "split" in granule details (NSIDC)
11013671	Improve error handling in Reverb when Elastic incorrectly contains a Granule/Dataset

11013971	Update Reverb to handle provider policies that specify duplicate items in order per dataset (Order Workflow) (LPDAAC) (internal)
11014211	Change catalog-rest searches to be case insensitive by default
11014241	Inherited links in atom results are not valid URIs
11014242	Improve DIF support in ECHO: Add ability to convert DIF to ISO and improve test coverage
11014243	Atom inherited links are not atom compliant

In Test: 10.72

(4 week sprint, ending 1/3)

Number	Summary
11010275	ECHO Reverb (alpha): Datasets results should be sorted by relevance
11010702	ECHO:REVERB:Export KML file of granule results
11011377	"Refresh" period between the time something is changed in PUMP and shows up in WIST/REVERB is troublesome (schedule d for work in 10.73)
11012066	Allow a user to modify the spatial search region on the granule results page
11013284	Reverb Granule Detail Browse jpeg not displayed with I.E. 9
11014242	Improve DIF support in ECHO: Add ability to convert DIF to ISO and improve test coverage
11014270	Visualization: In granule results, 'Map View' should be default tab
11014271	Visualization: Timeline view initial loading spinner should be more apparent
11014277	Visualization: Swap timeline and image tabs
11014278	Visualization: Image View: Create a better visual indicator for granules in shopping cart
11014279	Visualization: Image View: Include an "Add All to cart" button and and "Add All on this Page to Cart" button
11014282	Visualization: Image View: The information pane has the producer granule id running over the edge of the lightbox
11014283	Pop-up Help text should be in a sans-serif font to match look and feel of the rest of Reverb
11014286	Reverb ECHO - FTP Batch Script Download still shows up as available
11014287	Error with galleria theme asset paths in 10.71, Testbed. (backported to 10.71)
11014288	Buttons "Save Granule Results" and "Add Selected to Cart" show/hide incorrectly on "List View" tab
11014290	Visualization: Image View: an inconsistency of the yellow border of the browse and the yellow shopping cart icon (unplanned)
11014291	Visualization: Image View: If only one dataset is selected, the default Image View tab should show pageable set of granules (unplanned)
11014310	MODIS/Aqua Snow Cover Daily L3 Global 500m SIN Grid V005 granule ordering in new workflow has bogus and non-functional elements (unplanned)(Order Workflow)(backported and testable in Partner Test 10.71)
11014311	Reverb: Granule details popup should conform the format as it is in dataset details popup (unplanned)
11014312	Allow search by dataset_id for the open search granules resource to allow CWIC to search from GCMD results (unplanned)
11014313	Reverb: Order Workflow Granule Expand Item List not working (unplanned)(Order Workflow)(backported and testable in Partner Test 10.71)
11014314	Order options combined for duplicate datasets (unplanned)(Order Workflow)(Partner Test)(duplicate of 11014218 to be included in 10.73)
11014319	ATOM results should put all namespace declarations in the feed element. (unplanned)
11014334	Unable to set order options in IE 9 and above (unplanned)

11014339	Reverb granule results global map not showing lat/lon lines (unplanned)
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In Development/Pending: 10.73

(still in planning/estimation phase)

Discussion Topics

Relevance Sort vs Alphabetical Sort in Reverb

ECHO's OpenSearch implementation is starting to expose a "relevance" score, which is an indicator on the ranking of the search terms for keyword searches. For more information about the OpenSearch specification of scoring [check out the documentation](#)

To see some preliminary results for OpenSearch ranking in testbed test the following. Note we are still working on our relevance ranking, so don't take these numbers as final results!

```
curl https://testbed.echo.nasa.gov/opensearch/datasets?keyword=MODIS%20aerosol
```

Sample Result Entry:

```
<entry
xmlns:echo="http://www.echo.nasa.gov/esip"
xmlns:georss="http://www.georss.org/georss/10"
xmlns:gml="http://www.opengis.net/gml"
xmlns:relevance="http://a9.com/-/opensearch/extensions/relevance/1.0/"
xmlns:time="http://a9.com/-/opensearch/extensions/time/1.0/">
<id>https://testbed.echo.nasa.gov:443/opensearch/datasets.atom?uid=C24959-LAADS</id>
<author>
<name>ECHO</name>
<email>support@echo.nasa.gov</email>
</author>
<title type="text">MODIS/Aqua Aerosol Cloud Water Vapor Ozone Daily L3 Global 1Deg CMG V005</title>
<summary type="text">MODIS/Aqua Aerosol Cloud Water Vapor Ozone Daily L3 Global 1Deg CMG</summary>
<updated>2006-03-17T00:00:00.000Z</updated>
<echo:datasetId>MODIS/Aqua Aerosol Cloud Water Vapor Ozone Daily L3 Global 1Deg CMG V005</echo:dataset
Id>
<echo:shortName>MYD08_D3</echo:shortName>
<echo:versionId>5</echo:versionId>
<echo:dataCenter>LAADS</echo:dataCenter>
<echo:processingLevelId>3</echo:processingLevelId>
...
<relevance:score>0.5</relevance:score>
...
<dc:date
xmlns:dc="http://purl.org/dc/elements/1.1/">2002-05-04T00:00:00.000Z/
</dc:date>
</entry>
```

We are also interesting in ranking keyword searches on Reverb. For example, if you are searching for "MODIS aerosol" data, a keyword search in Reverb currently returns an alphabetical listing of all collections matching those terms, but in the future, the listing of granules may be sorted by relevance instead.

Some Questions for the ETC

1. Is relevance sort something you think is a good fit for Reverb? Previously, alphabetical sort was requested, but is this something of

interest to users?

2. Should relevance sorting be the default?
3. Should Reverb expose a "sort by" selection? If so, how? Dropdown? Checkbox? Column header?
4. Once this goes live in Operations (slated for 10.72), is the algorithm for relevance ranking working as you think it should? The way we are doing relevance searching can be tweaked.

Relevance Sort Discussion

Ed Seiler asked how the OpenSearch results are sorted with this change.

Doug Newman will have to respond to this.

Lisa Booker likes the idea of being able to change the sort, and says that NSIDC will be slating similar work, as well as including a "Sort by Popularity" option.

Cool Idea. ECHO should look into this.

Reverb User Settings and Saved Queries

As of now, users are able to bookmark searches using links from the granule results page, but there have been some NCRs requesting that users have a more centralized "User Settings" place that allows them to set preferences and save searches associated with the user's URS account. This would allow them to access their searches and use preferences from any computer that they use to log into Reverb. I have put together a mock-up of a User Settings page and would like some feedback. Please take a look at the mock-up below. Comments/Questions should be directed at me: kathleen.baynes@nasa.gov

Reverb User Settings

Account Settings

Default Granule Results Tab: Map View ⓘ



Order Email Preference: All Status Changes ⓘ

These preferences are Reverb-specific. To edit your URS Account Information [Click Here](#).

Saved Searches

Search Name	Action
My Saved Search 1	 
My Saved Search 2	 
My Saved Search 3	 

Order Status

Order Id	Status	Date	Cancel?
0d82fba4-ac3d-49ad-a248-f17815fb0d92	Open	1/24/2014	
2cecfdc7-99c7-45b5-aa3d-f72803c5ed93	Open	1/23/2014	
aecf0ff-410b-4506-96d2-7f9716c9259d	Closed	1/17/2014	
1b014b73-134f-4f74-b524-6fb5f7a6f684	Closed	1/10/2014	

Reminder: Please be sure to log out of your account if you are using a shared computer.

[Cancel](#)

Save

User Settings Discussion

Lisa Booker asked where the user settings might live in the UI.

It would appear as a link in the menu bar where the Sign In/Sign Out as a drop down.

Jon Velapoldi asked if the Order Status menu item would disappear.

This needs a little bit of internal discuss and research into how the current menu item is used.

FYI: Reverb Mapping Changes, Moving to GIBS OpenLayers

By now, I assume most of you are aware of the GIBS system and its beautiful reference implementation site: [Worldview](#) (if not, check it out!).

We are looking to migrate all of our mapping in Reverb to use the OpenLayers interface exposed by GIBS in the upcoming sprint. This involves moving away from the Google Map on the front page and having slightly different looking layers on the Granule results page of Reverb. Right now, this is an FYI, we are not ready to make the change quite yet, but wanted to make our partners aware of this behind-the-scenes activities.

No date for this transition has been set yet, but it is expected to occur in the early part of 2014.

Order Workflow - Updated

Due to some NCRs discovered late in the testing effort, the new Order Workflow has been pushed back to 10.72 .

- **While reviewing the Order Workflow and need to file and issue, if you are not familiar with TTPro, please use [Kayako](#) to submit.**
- Gates required for deployment to Operations
 1. Acceptance testing by user services groups in Partner Test (continuing)
 2. NCRs in 10.71 and 10.72
 3. 10.72 has multiple order options per granule available, satisfying an LPDAAC requirement (in Test now)

Upcoming Events

Planned Maintenance 1/8/2014

- 10.72 to Testbed (outage)
- OS updates and security patches to Misc Support Servers
- **Full Testbed and Limited Partner Test (Browse,EIAT) Outage**

Open Floor

FTP Ingest Retirement Date

Representatives from both GESDISC and ASF expressed interest in getting a specific date/timeline for the retirement of FTP ingest as we move towards the CMR